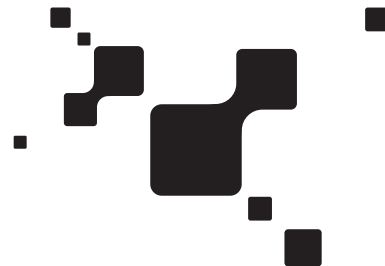
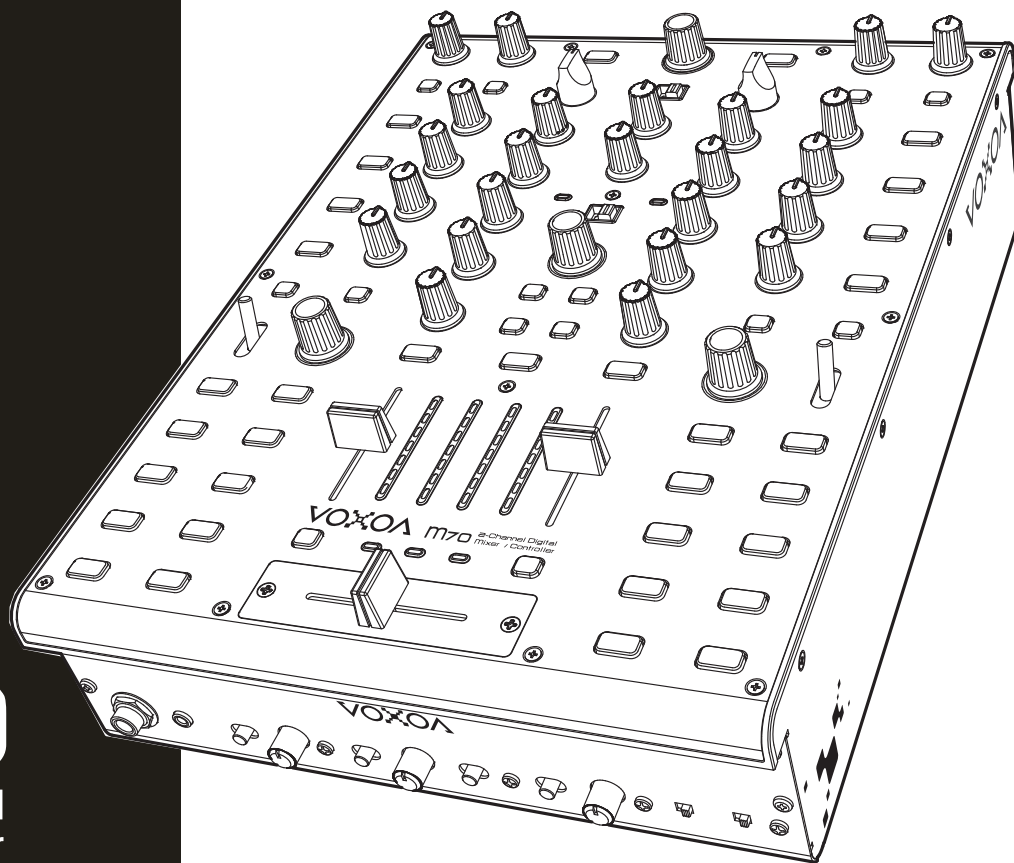


VOXOA

m70

2 Channel Digital
Mixer & Controller

User Manual



IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use the apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus.
When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lighting storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. When the mains plug or appliance coupler used as the disconnect device, it shall remain readily operable.
16. Please keep the unit in a good ventilation environment.



WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture. The apparatus shall not be exposed to dripping or splashing and that no objects filled with liquids, such as vases, shall be placed on the apparatus.



CAUTION
RISK OF ELECTRIC SHOCK
DO NOT OPEN



CAUTION : To reduce the risk of electric shock, do not remove any cover. No user-serviceable parts inside. Refer servicing to qualified service personnel only.



The lightning flash with arrowhead symbol within the equilateral triangle is intended to alert the user to the presence of un-insulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock.



The exclamation point within the equilateral triangle is intended to alert the user to the presence of important operation and maintenance (servicing) instructions in the literature accompanying this appliance.

CAUTION

To prevent electric shock, do not use this polarized plug with an extension cord, receptacle or other outlet unless the blades can be fully inserted to prevent blade exposure.

IMPORTANT SAFETY INSTRUCTIONS

17. All warnings on the appliance and in the operating instructions should be adhered to.
18. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
19. Power Sources - This product should be operated only from the type of power source indicated on the rating label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For products intended to operate from battery power, or other sources, refer the operating instructions.
20. Grounding or Polarization - This product may be equipped with a polarized alternation-current line plug (a plug having one blade wider than the other). This plug will fit into the power outlet only one way. This is a safety feature. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug should still fail to fit, contact your electrician to replace your obsolete outlet. Do not defeat the safety purpose of the polarized plug.
21. Power-Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to the cord in correspondence of plugs, convenience receptacles, and the point where they exit from the appliance.
22. For AC line powered units - Before returning repaired unit to user, use an ohm-meter to measure from both AC plug blades to all exposed metallic parts. The resistance should be more than 100,000 ohms.
23. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.
24. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.
25. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:
 - A. The power-supply cord or the plug has been damaged; or
 - B. Objects have fallen, or liquid has been spilled into the appliance; or
 - C. The appliance has been exposed to rain; or
 - D. The appliance does not appear to operate normally or exhibits a marked change in performance; or
 - E. The appliance has been dropped, or the enclosure damaged.
26. Servicing - The user should not attempt any service to the appliance beyond that that described in the operating instructions. All other servicing should be referred to qualified service personnel.
27. Lightning - For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna or cable system. This will prevent damage to the product due to lightning and power-line surges.
28. Replacement Parts - When replacement parts are required, be sure the service technician has used replacement parts specified by the manufacturer or have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, or other hazards.
29. Safety Check - Upon completion of any service or repairs to this product, ask the service technician to perform safety checks to determine that the product is in proper operating condition.

FEATURES and FUNCTIONS

DJing Software Controller

The M70 is a high performance digital mixer featuring an operational interface devoted the DJing software without having to connect an external controller. Allowing DJs directly access DJing software features without the need for an additional external controller. The controller functions included transport, files browsing, effects control, 8 samples, 8 hot cues, manual and auto loop, and sample recorder.

Moreover, for DJing software didn't support MIDI out function DJs can customize the LEDs as toggle mode or hold mode.

Bundle with VirtualDJ LE

The M70 bundles with VirtualDJ LE to provide DVS (Digital Vinyl System) function and supported MIDI mapping for Traktor Pro and Serato Scratch Live. It provided DJs an easy way to enjoy scratching through scratching DJing software.

High Quality Sound and Build-in 2In/2Out Sound Card

The M70 features an internal 2In/2Out (stereo) USB sound card that enables the DJs to connect directly to computer with a single USB cable. In order to provide DJs high quality sound the M70 employed a high quality digital/analog converter.

High Performance Crossfader

Crossfader plays a dramatic role for scratching DJs. The M70 is equipped with a high performance crossfader to provide DJs with the best possible feel. The crossfader has curve adjustment in order to satisfy different DJing style. Moreover, not only the crossfader has curve adjustment but also both of the channel faders have curve adjustment. The channel faders and crossfader have reverse switch.

Build-in Filter Effect for Each Channel

The M70 is equipped with Filter effect for each channel. DJs simply turn the Filter knob and filter effects can be adjusted enabling dynamic and intuitive song arranging.

DVS Direct Mode

The M70 can operate with DVS Direct Mode for DJing software by using vinyl or CD control time code signal. It perfectly integrates with traditional vinyl feeling and advanced software features. Moreover, under the DVS Directly Mode the external audio from CD players or turntables can implement effects provided by DJing software.

FEATURES

- Integrated 16bit /48kHz USB Audio Interface (Soundcard) with 2in/2out (stereo)
- High quality AD/DA Converters providing superb sound quality
- Included low latency ASIO driver
- DVS Direct Mode (CD or Vinyl) for DJ software using timecode signal
- MIDI controller compatible with various DJing software
- Fully MIDI control function for File Browsing, Transportation, Hot Cues, Samples, Loop control ,Effects control, Pitch control and special function (Loop recorder or Video transition)
- A great diversity of Inputs — Simultaneously play a combination of digital and analog sources
- Independent 3-Band Equalizer with fully kill function (-infinity dB to +10dB)
- Manual Filter adjustable from LPF — HPF for each channel
- Replaceable 45 mm High quality long life crossfader
- Adjustable crossfader curve for different DJing style
- Reversible crossfader and channel fader
- Channel fader with independent adjustable curve and reverse switch
- Fader Start play for cross fader and compatible with CD players
- Dual 10 LED monitor display for master meters
- Independent PFL meter for each channel
- Mic input with auto talk over function and tone control
- Headphone monitor can be switched to cue or master
- 2 AUX inputs (3.5 mm and RCA) for MP3 player (ex.iPod) friendly

SOFTWARE INSTALLATION INSTRUCTION

INSTALLING ASIO DRIVER FOR WINDOWS

Before you can use the VOXOA M70, you need to install its ASIO driver first. The ASIO lower latency to under 10 ms. you can configure the driver's settings using the Control Panel window. This tool and its options are explained following:

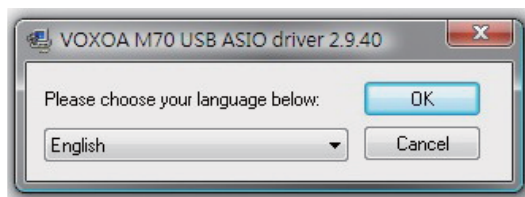
PC SYSTEM REQUIREMENTS (Minimum system requirements):

- Intel Pentium II 450MHz CPU or comparable AMD CPU(recommend at least a Pentium III CPU with 600M MHz) .
- Windows 98SE, ME, 2000, XP, Vista and Windows 7 operating system
- 1 available USB port
- At least 128MB RAM
- Software applications with ASIO support

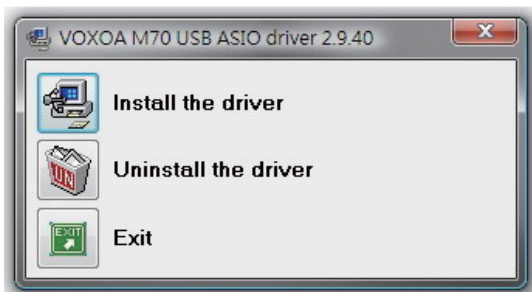
INSTALLATION:

Step 1: Place the installation CD in the CD-ROM drive of your computer and execute Setup.exe file.

Step 2: Select the desired language and click "Ok"



Step 3: Click "Install the driver"



Step 4: Follow the instructions from the installation window and install the driver step by step.

Step 5: In order to complete the installation it's necessary to reboot the computer. Press [Reboot now], or press [Reboot later] if you don't want to reboot your computer now.



INSTALLING VIRTUALDJ FOR WINDOWS

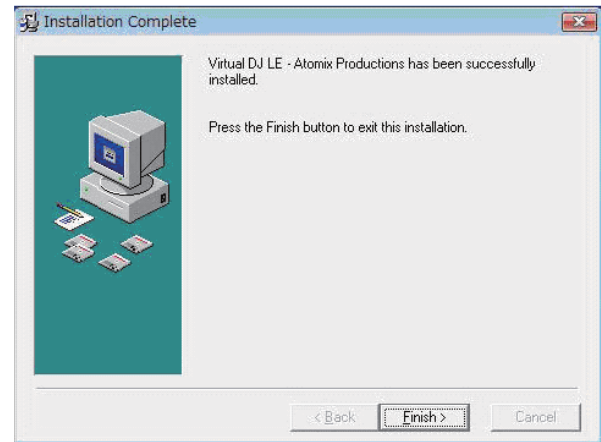
PC SYSTEM REQUIREMENTS

- Minimum system requirements:
 - Intel® Pentium® 4 or AMD Athlon™ XP
 - 1024x768 resolution
 - DirectX compatible soundcard
 - 512MB RAM
 - 50MB free on the hard drive
- RECOMENDED system requirements:
 - Intel® Core™ 2 or AMD Athlon™ X2
 - 1280x1024 resolution
 - Multi-channel DirectX compatible soundcard
 - 1024MB RAM
 - 200MB free on the hard drive
- Additional requirements for video mixing:
 - 2048MB (2GB) RAM
 - ATI™ or NVIDIA® video card w/256MB of Dedicated DDR3 RAM
 - Video card must support dual-screen output
- Supported Operating System:
 - MINIMUM: Microsoft® Windows XP SP3 or newer
 - RECOMMENDED: Microsoft® Windows 7 Professional 32-bit
 - Microsoft® Windows 95, 98, ME, or older are not supported

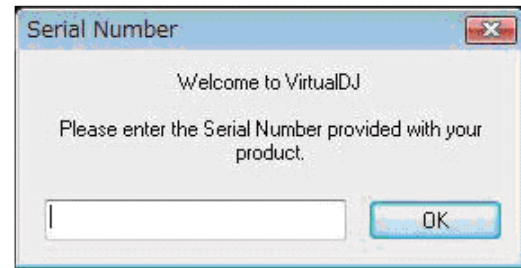
INSTALLATION:

Use the following steps to install the DJ software “VirtualDJ” in the supplied CD-ROM.

- Step 1: Insert the included installer disc to your computer.
- Step 2: Double click “install_virtualdj_le.exe” to execute the installer
- Step 3: Follow each step in the installation screen for installation.
- Step 4: When the installation completes, click the “Finish” button to close the installation screen.



Step 5: Double click the VirtualDJ icon created on the desktop. And then follow the instructions on the to enter the product serial number.



NOTE:

The serial number is printed on the back of the CD-ROM case.

For information about how to use the DJ software, see the instruction manual for the DJ software or the help menu. VirtualDJ is an Atomix Productions software. To install and use the software, you have to accept the software license agreement. VOXOA Co. shall not be responsible for any problems with your computer and other software that may arise from the installation and use of VirtualDJ.

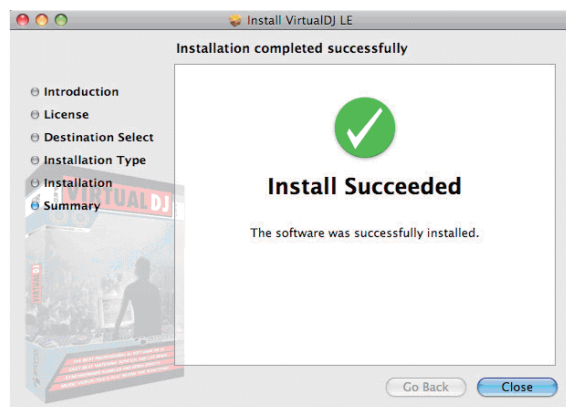
INSTALLING VIRTUALDJ FOR MAC OS

MAC SYSTEM REQUIREMENTS

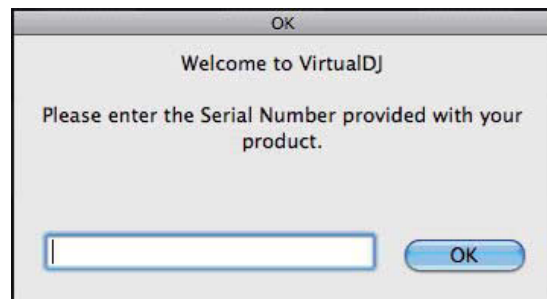
- Minimum system requirements:
 - Intel® processor
 - Mac OS X v10.5.x
 - 1024x768 resolution
 - CoreAudio compatible soundcard
 - 1024MB RAM
 - 50MB free on the hard drive
- RECOMENDED system requirements:
 - Intel® processor
 - Mac OS X v10.6.x
 - 1440x900 resolution
 - Multi-channel CoreAudio compatible soundcard
 - 2048MB (2Gb) RAM
 - 200MB free on the hard drive
- Additional requirements for video mixing:
 - ATI™ or NVIDIA® video chipset w/256MB of Dedicated DDR3 RAM
 - Video must support dual-screen output
- Supported Operating System and Processor Platforms:
 - MINIMUM: Mac OS X v10.5 Leopard on Intel processor platform
 - RECOMMENDED: Mac OS X v10.6.x Snow Leopard on Intel processor platform
 - Apple® Mac OS X 10.4.x Tiger or older are not supported
 - Motorola® (PowerBook® G4) processor platform or older are not supported.

INSTALLATION:

- Step 1: Insert the included installer disc to your computer.
- Step 2: Double click “install_virtualdj_le.exe” to execute the installer
- Step 3: Follow each step in the installation screen for installation.
- Step 4: When the installation completes, click the “Close” button to close the installation screen.



- Step 5: The Serial Number is required when first starting VirtualDJ. The serial number for VirtualDJ is printed on bottom panel of M70.



Note: The serial number is printed on the back of the CD-ROM case.

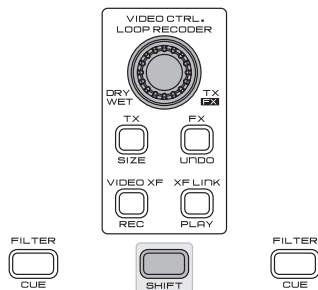
SETUP AND FIRMWARE UPDATE

FIRMWARE UPDATE

Setting Mode (Hold the control buttons and then turn power on)

1. Default Setting

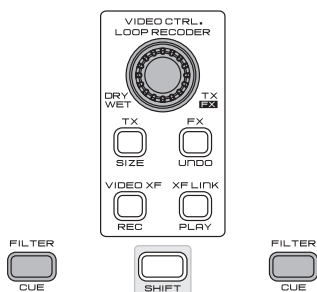
Hold the DRY/WET encoder and SHIFT button



2. Firmware Update

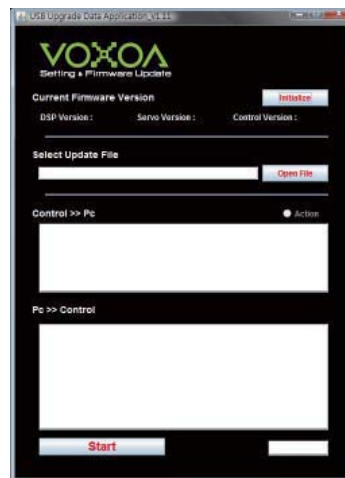
Step 1:

Connect the M70 with your computer. Before you turn on M70 power please HOLD the “Channel 1 Monitor Cue” “Channel 2 Monitor Cue” and “Dry/Wet Encoder” (as following graph) at the same time, and then turn the power on. The level meters are blinking indicating the M70 is ready for firmware update.



Step 2:

To execute the “USB Upgrade Data Application” on your computer.



Step 3:

Click the “Initialize” button to get the M70 firmware information

Step 4:

Click “Open File” button to open the firmware update file in your computer (get the last firmware update information from www.voxoa-pro.com)

Step 5:

Click the “Start” button to begin the firmware update process. During the process you can find the update information show in the program window.

Step 6:

After successfully update the firmware the M70 will automatically restart.

SETUP AND FIRMWARE UPDATE

3. LEDs Setting

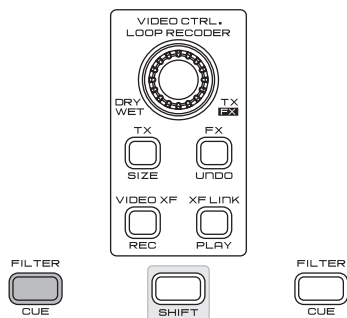
Active the Setting mode

Hold the two FADER START together and turn on power.

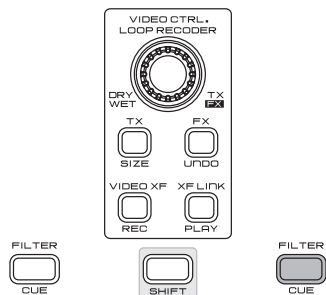


Two Modes Setting

1. Normal Mode (CH1 Cue LED glow)
Accept the software MIDI out (Default)



2. Self Lighting Mode (CH2 Cue LED glow)



Self Setting Mode

There are two LED light modes. One is “Toggle” mode. Another is “Hold” mode. Users can edit every MIDI control button to “Toggle” or “Hold” mode. The default value is “Hold” mode. Press the button to light the LED for setting as “Toggle” mode.

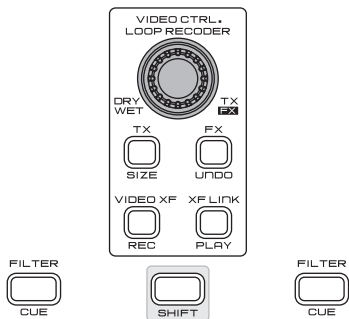
Save Setting

Press the two FADER START buttons together to save setting. You have to turn off the M70 and turn on again to active the setting.

4. MIDI Channel Setting

Step1:

You can change MIDI channel by holding the “DRY/WET” encoder and turn on the power.



Step2:

The left deck Hot Cues indicate current MIDI channel

Hot Cue 1 as MIDI Channel 1,2

Hot Cue 2 as MIDI Channel 3,4

Hot Cue 3 as MIDI Channel 5,6

Hot Cue 4 as MIDI Channel 7,8

Hot Cue 5 as MIDI Channel 9,10

Hot Cue 6 as MIDI Channel 11,12

Hot Cue 7 as MIDI Channel 13,14

Hot Cue 8 as MIDI Channel 15,16

You can change different MIDI channel by press Hot Cue 1 to 8.

Step3:

Save the MIDI channel setting.

Hold the Channel 1 and Channel 2 's fader start buttons the LED will blinking to indicate the MIDI channel setting is saved.

Restart the M70 to finish the setting.

AUDIO SETUP

AUDIO INTERFACE SETUP FOR VIRTUALDJ

Step 1: Click [CONFIG] located on the top right of VirtualDJ.



Step 2: Select [ASIO for M70 Driver] in the [Sound card] tab,



CAUTION:

The VirtualDJ LE only provides “INTERNAL MIXER MODE” and without Inputs. If you need full function of VirtualDJ, please upgrade the software to VirtualDJ Pro Full version. The difference between VirtualDJ versions please refer to VirtualDJ website <http://www.virtualdj.com/products/comparison.html>

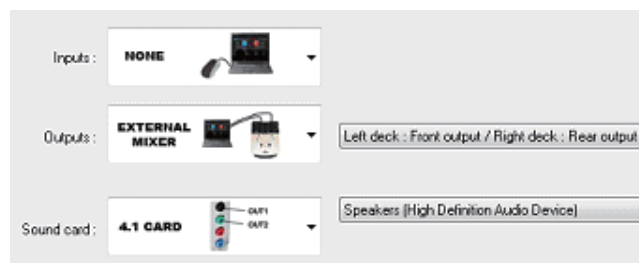
INTERNAL MIXER MODE

Then select [Master: Chan 1&2/Headphones: Chan 3&4] in the [Outputs] tab.

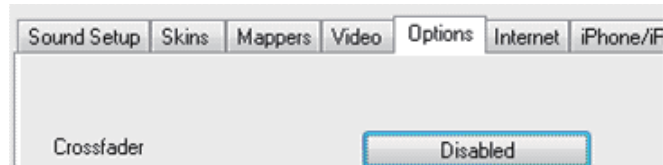
EXTERNAL MIXER MODE

Left deck and right deck on separate outputs

With Inputs set to None, Outputs set to External Mixer, and Sound card set to ASIO Driver; this is the most common configuration that will be used. For the Outputs the assignment is Left Deck: Chan 1&2 and Right Deck: Chan 3&4. In this configuration, connections from the 1&2 and 3&4 outputs of the DeeJay Trim are connected to the appropriate Line level input channels on the mixer.



In all these situations, it is important to understand that when using an external mixer; VirtualDJ's internal mixer is not necessary. Most importantly, you should disable VirtualDJ's internal crossfader to ensure 100% output is provided to each of the assigned deck outputs. Disabling the internal crossfader is done by selecting the Options tab from the configuration dialog, then clicking on the Crossfader option button until the word “Disabled” appears.



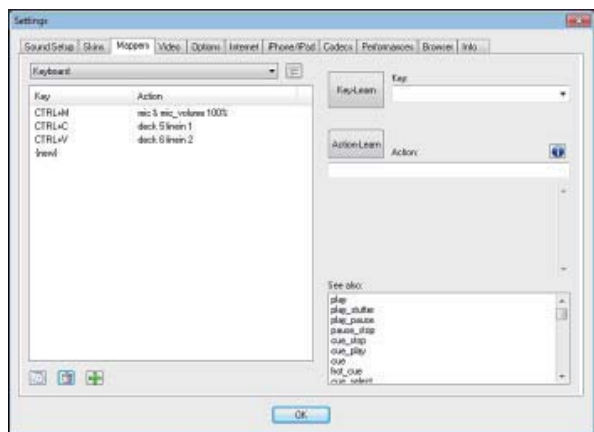
LINE INPUTS MODE

VirtualDJ can also be configured to pass the line inputs of the sound card through software interface. As depicted in the below images, the sound configuration being used is with the Inputs set to the LINE-INS option.



Then by assigning the VDJScript action "linein" to an available deck, the audio sent in on the line input will pass through VirtualDJ providing a rhythm wave display and dynamic BPM display on the deck.

The appropriate VDJScript syntax is "deck # linein #" – replacing the # symbols with the appropriate deck and line numbers. The example below is using a 6 deck skin and assigning decks 5 and 6 to line inputs 1 and 2 respectively.



DVS MODE (with Timecode Vinyl or CDs)

Timecode setup can be used with either the External Mixer option. To setup VirtualDJ for use with Timecode Vinyl or CDs, change the Inputs option to Timecode.

TIMECODE (Single Deck) CONFIGURATION

For use with a single timecode source, chose the Single Timecode option from the Input drop-down.



TIMECODE (Dual Deck) CONFIGURATION

For use with 2 Timecode input sources, choose the Timecodes option from the Input drop-down.

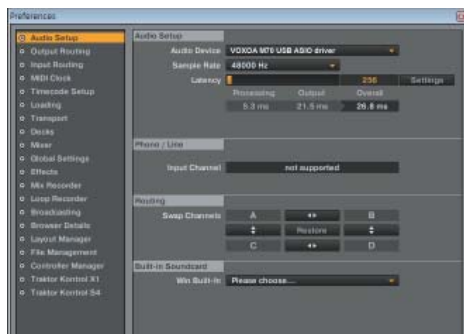
Just like in changing the outputs around if the connections to the input sources are incorrectly connected, you can choose to reverse the settings from the input drop-down from Chan 1&2: Left Deck / Chan 3&4: Right Deck to Chan 1&2: Right Deck / Chan 3&4: Left Deck.



AUDIO SETUP

AUDIO INTERFACE SETUP FOR TRAKTOR

1. Open the Preference menu (click the icon on the right top of the screen that looks like a gear wheel).
2. Open “Audio Setup” located on the left top.

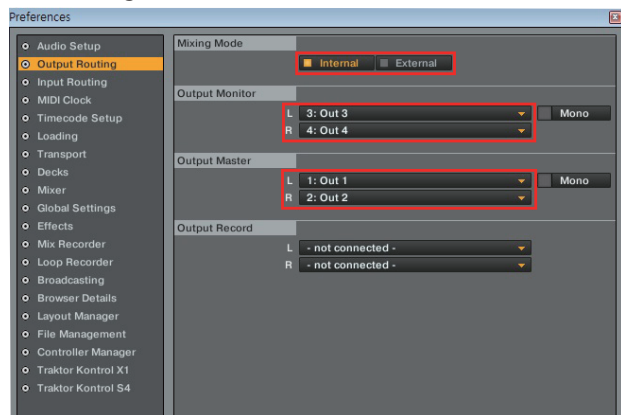


3. Click on the “Audio Device” box and choose “VOXOA M70 USB ASIO driver”

4. Open Output Routing

INTERNAL MIXER MODE

Set “Mixing Mode” as “Internal”



Set “Output Monitor” (Output to headphone)

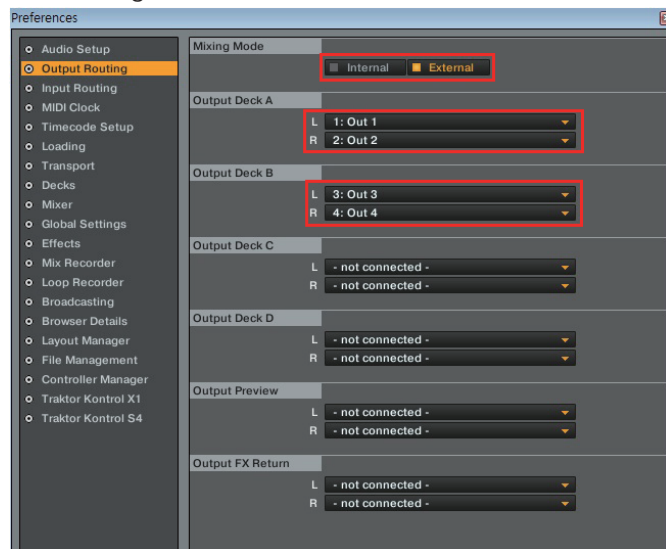
| | Windows | MAC OS |
|-----------|---------|---------------|
| RCA Left | OUT 3 | 3: Back Left |
| RCA Right | OUT 4 | 4: Back Right |

Set “Output Master” (Output to speakers)

| | Windows | MAC OS |
|-----------|---------|----------------|
| RCA Left | OUT 1 | 1: Front Left |
| RCA Right | OUT 2 | 2: Front Right |

EXTERNAL MIXER MODE

Set “Mixing Mode” as “External”

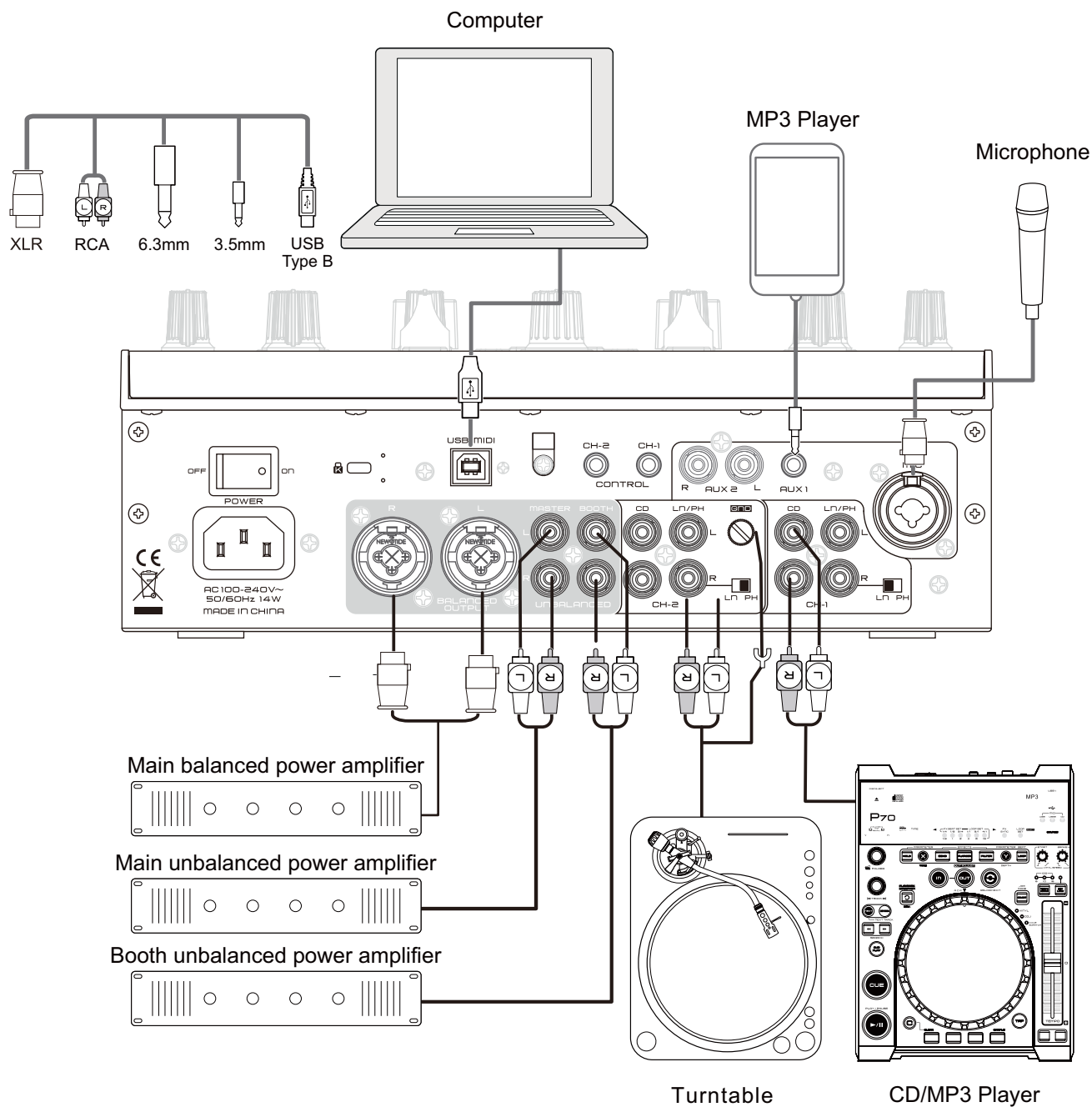


Set “Output Monitor” (Output to headphone)

| | Windows | MAC OS |
|-----------|---------|----------------|
| RCA Left | OUT 1 | 1: Front Left |
| RCA Right | OUT 2 | 2: Front Right |

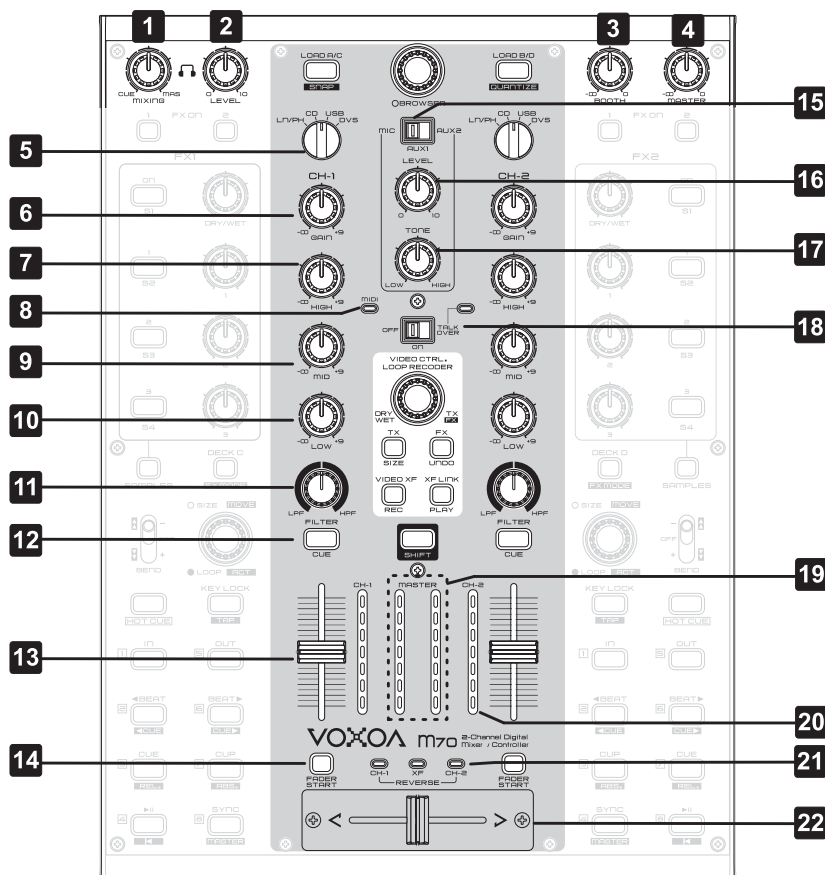
Set “Output Master” (Output to speakers)

| | Windows | MAC OS |
|-----------|---------|---------------|
| RCA Left | OUT 3 | 3: Back Left |
| RCA Right | OUT 4 | 4: Back Right |



PART NAMES AND FUNCTIONS

MIXER SECTION



1. Monitor Mixing Mode selector

This function allows you to monitor the Cue level as well as the Master (main output) level in your headphones. Channels Cue Level may only be monitored if the channel CUE function is selected. To select a channel cue function press the CUE BUTTON that is directly associated with the specific channel you wish to monitor. You may use the mixing function to blend both the Cue level and the MASTER level together.

You can vary the output level to either hear more or less of either of the two levels. Turning the Cue Mixing knob to the CUE position (left) will allow you to hear more of the Cue level. Turning the knob to the MASTER position (right) will allow you to hear more of the Program level (main output).

You may also use the Cue Mixing Control to hear either the Cue level or the Master level exclusively. If the knob is in the full CUE position you will only hear the cue level, if the knob is in the full MASTER position you will only hear the main output. This function is especially useful when mixing without a monitor. Adjusts the balance for the CUE and master output to the headphone.

2. Cue Level control

This rotary knob is used to adjust the headphone volume output level. Turn the knob in a clockwise direction to increase the headphone volume.

3. Booth Control knob

This rotary knob is used to control the level of the BOOTH output terminal on the rear panel. The booth level is not affected by the master volume.

4. Master Volume control

This rotary knob is used to control the master output level (volume). To avoid distorted output try to maintain an average output signal level +4 dB.

CAUTION: To avoid speaker damage that may be caused by excessive volume, be sure this adjustment is always set to zero before turning the unit on.

5. Channel Input Source switch

Selects the input source for each channel. You can switch among Line/Phono, CD, USB (from computer) and DVS (from computer).

NOTE :

Hold the Left Deck “Deck Switch” and switch the input select the M70 will keep your last selection in the system memory.

The difference between USB and DVS (Digital Vinyl System Direct Mode). The signals of USB inputs come from sound card (PC) outputs. Under the DVS mode you can input signal to computer and output music to mixer. When you use time code vinyl to control DJing software you have to switch to the DVS mode.

Under MIDI Control Mode

You can switch the input selections among L/P1 (Line1/Phono1), L/P2 (Line2/Phono2) and AUX. The external signal can be send to software through the build in sound card.

6. Channel Gain control

This adjustment is used to adjust an audio source signal input gain for a channel. Never use the gain control to adjust output volume. Setting the gain level properly will ensure a clean output signal.

NOTE : To properly set the gain level controls:

- (1) Be sure the MASTER VOLUME CONTROL is set to minimum.
- (2) Set the CHANNEL FADER to level 7.

7. Channel EQ High-rang Adjust knob

This knob is used to adjust the treble (high-rang) frequency sound for each channel. The adjustable range from $-\infty$ dB to +9dB.

8. MIDI function indicator

LED indicate the mixer section is under MIDI controller mode to control the mixer section in the DJing software.

PART NAMES AND FUNCTIONS

9. Channel EQ Mid-rang Adjust knob

This knob is used to adjust the mid-rang frequency sound for each channel. The adjustable range from $-\infty$ dB to +9dB.

10.Channel EQ Low-rang Adjust knob

This knob is used to adjust the bass (low-rang) frequency sound for each channel. The adjustable range from $-\infty$ dB to +9dB.

11.Filter Eeffect Control

Which filter effects can be achieved simply by turning the FILTER control knob.

LPF: low pass filter, applies the effect of the treble sound fading out.

HPF: high pass filter, applies the effect of the bass sound fading out.

12.Channel Cue button

Pressing in any or all of CUE buttons routes the respective source to the headphone and meter cue sections. Pressing multiple buttons makes it possible to drive mixed sound from the selected sources.

13.Channel Fader

These faders are used to control the output signal of any source assigned to its particular channel. However, master volume is controlled by the MASTER VOLUME CONTROL.

14.Fader Start button

This function works in conjunction with a compatible player. When used with a compatible player, you can use the crossfader to start and stop a player with the mixer's crossfader. The button switches the FADER START feature on and off. If this function is activated, the FADER START automatically returns the player to the preset cue point.

15.MIC, AUX1/2 Source selector switch

This switch is used to select to control LEVEL/TONE from which signal source: MIC, AUX1 or AUX2.

16.MIC, AUX1/2 Level control

These rotary knobs control the output volume of MICROPHONE or AUX1/2 .

17.MIC, AUX1/2 Tone control

This rotary knob control the frequency response of MICROPHONE or AUX1/2.

18.MIC On/Off/Talkover switch

To set MIC on and off, when switch at the talkover position, the mic1 and 2 on, the sound level for everything other than that from the MIC will decrease to around 20dB.

19.Level Meter

The dual LED's indicators are used to detail either the master output level, a combination of the master output level or the PGM monaural level.

20.Channel Level meter

Displays the input level after adjusted with GAIN and EQ controls.

PART NAMES AND FUNCTIONS

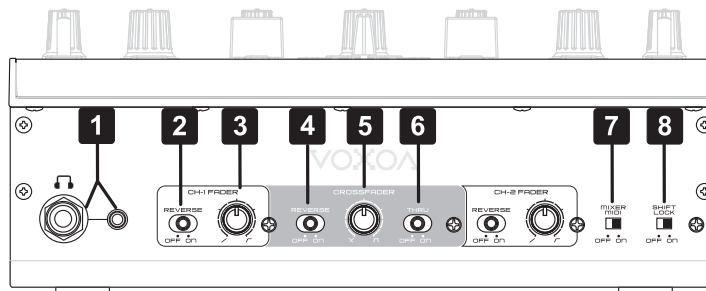
21. Reverse indicator

The LEDs indicate which is in the reverse function CH1, CH2 or crossfader.

22. Crossfader

This fader is used to blend the output signals of channels 1 and 2 together. When the fader is in the full left position (channel 1), the output signal of channel 1 will be controlled by the master volume level. The same fundamentals will apply for channel 2. Sliding the fader from one position to another will vary the output signals of channels 1 and 2 respectively. When the crossfader is set in the center position, the output signals of both the channel 1 and channel 2 will be even.

FRONT PANEL



1. Phones jacks

These jacks are used to connect your headphones to the device allowing you to monitor the cue channel. Always be sure the CUE LEVEL VOLUME is set to minimum before you put the headphones on.

2. CH-Fader Reverse switch

On: Reverse the CH fader
Off: normal mode.

3. CH-Fader Curve Adjust knob

Allows adjusting the slope of channel fader. Rotate clockwise to shorten fade time with sharper cut off at either end Rotate anti-clockwise to lengthen fade to gradually mix across fader and 50/50 mix in center only.

4. Cross fader Reverse

On: Reverse the crossfader
Off: normal mode.

5. Crossfader Curve Adjust knob

Allows adjusting the slope of crossfader. Rotate clockwise to shorten fade time with sharper cut off at either end Rotate anti-clockwise to lengthen fade to gradually mix across fader and 50/50 mix in center only.

PART NAMES AND FUNCTIONS

6. Crossfader assign switch

Putting the switch to the corresponding position, you can select the channel signal to the left or right side of the crossfader. If you put the switch to the middle position “THRU” means the channel is not assigned to the crossfader.

7. Mixer /MIDI Control switch

You change the Mixer section as a software controller instead of a real mixer. Under software control mode the MIDI indicator will glow.

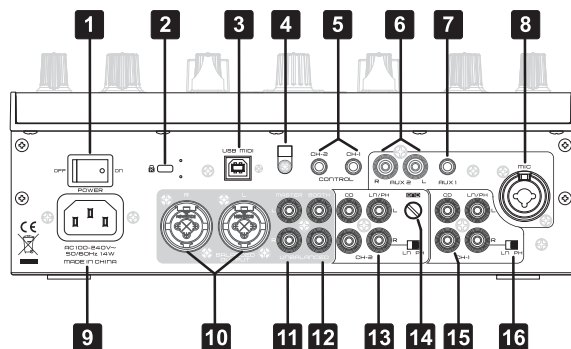
8. Shift Lock switch

Press or hold the SHIFT button you can access the secondary functions of other control elements. There are two modes for SHIFT button.

Shift Lock ON (HOLD mode): You have to press the button until you finished the secondary functions.

Shift Lock ON (TOGGLE mode): Press the button to active the secondary functions. functions.

REAR PANEL



1. Power Switch

Turn this unit power ON/OFF.

2. Kensington lock

Standardized connection for theft protection.

PART NAMES AND FUNCTIONS

3. USB MIDI port

After hooking up your computer with the USB 1.1 Connections, your computer will detect them respectively as an external sound card (USB Code). You may either play music on your computer or send it via the USB 1.1 Connections as a signal source to the device; alternatively, you may record the Master output signal on your computer using the USB 1.1 Connection.

NOTE : (1) The sent Master Output Signal is not influenced by the position of the volume controls. To use the USB 1.1 Connection, please also refer to the operation manual of your computer and the programmers used.

(2) USB cable no more than 3m long.

4. Power Cord fastener

To fasten the power cord to avoid unplugging the cord by accident.

5. Channels 1 & 2 Control jacks

This jack is used to control the “Fader-Start” function between the mixer and a compatible CD player. Be sure to only use the mono tip mini plug included with your CD player to avoid damage to the mixer or the CD player.

6. AUX2 Input jacks

CD players, Tape Decks and other line level instruments may only be connected to these jacks. The red colored RCA jack represents the right channel input and the white represents the left channel input. Input volume will be controlled by the MIC, AUX1/2 Level control . The MIC, AUX1/2 Source selector switch must be in the “Aux2” position, to monitor any source connected to these jacks.

7. AUX1 Input jack

CD players, MP3 Player, Tablet Pad and other line level instruments may only be connected to this jack. Input volume will be controlled by the channel fader. The MIC, AUX1/2 Source selector switch must be in the “Aux1” position, to monitor any source connected to this jack.

8. MIC jack

This jack is used to connect a microphone to the mixer. Connect you microphone via 1/4 inch jack.

9. AC inlet

Use the accessory power cord to connect to an AC power outlet.

10. Balanced XLR master output jacks

The Master Output includes a pair of XLR Balanced jacks. The 3-pin XLR jacks send a high current balanced output signal.

CAUTION : These jacks should be used when you will be driving an amp or other audio equipment with a balanced input, or whenever you will be running a signal line greater than 15 feet. Always, use these jacks whenever possible.

11. RCA Master Output jacks

The RCA jacks send a low current unbalanced output signal.

CAUTION : These jacks should only be used for shorter cable runs to signal processors or looping to another mixer. For cable runs greater than 15 feet use the XLR BALANCED jacks.

12. Booth Output jacks

Connect to inputs of your active monitors using cables with RCA connectors.

13. Channel Phono/ Line Input connectors

Turntables equipped with MM pickup cartridge (All DJ turntable use MM pickup cartridges) may be connected to these jacks as long as the PHONO/ LINE selector switches is in the “PHONE” position. CD players, Tape Decks and other line level instruments may only be connected to these jacks as long as the PHONO/ LINE selector switches is in the “LINE” position. Input volume will be controlled by the Channel gain control knob.

14. GND (Ground Terminal)

Be sure to connect turntable ground leads to either or both of the two available ground terminals. This will reduce the humming and popping noises associated with magnetic phono cartridges.

15. CD Input jack

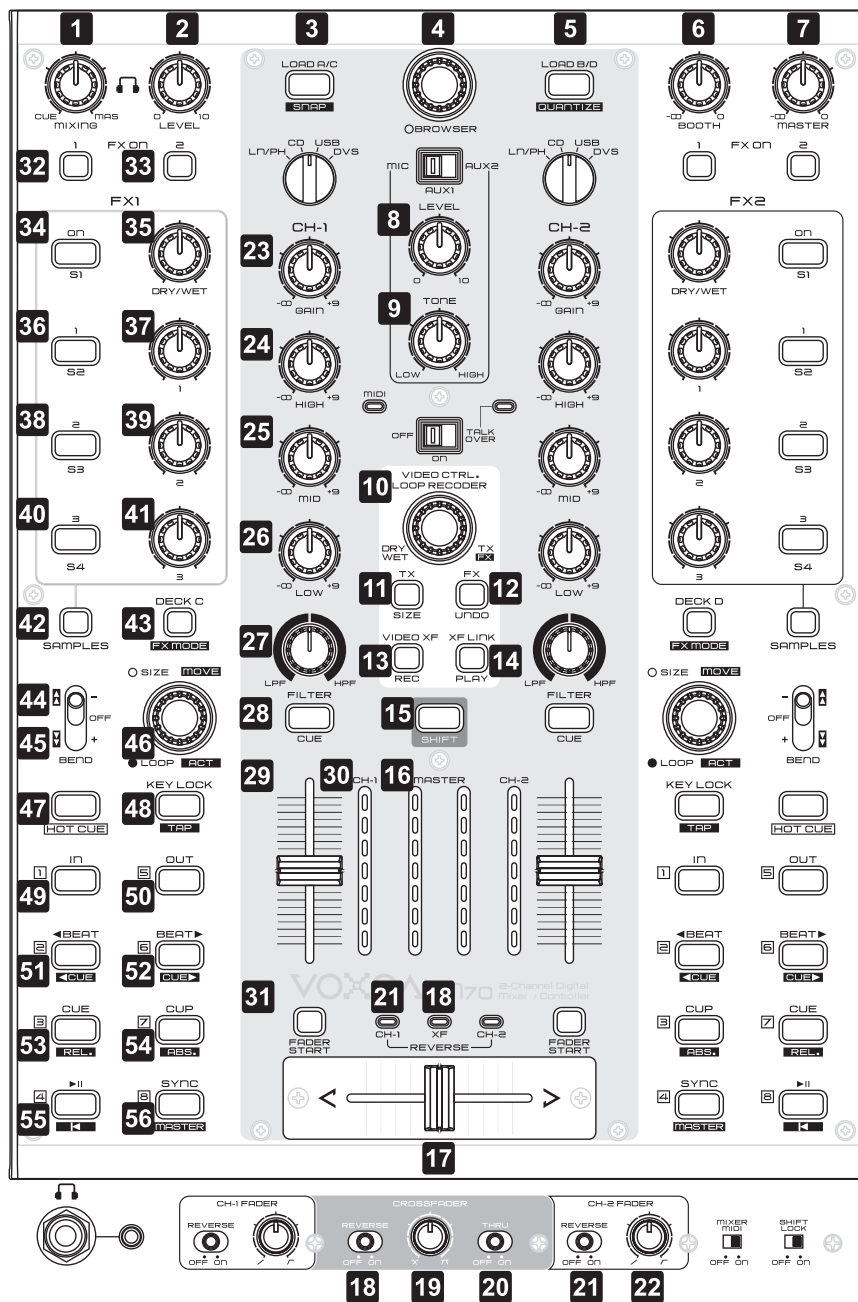
CD players may only be connected to this jack. Input volume will be controlled by the channel fader. The channel Source Selector switch must be in the “CD” position, to monitor any source connected to this jack.

16. Phono/ Line Selector switch

These switches are used to change the voltage line levels of the respected PHONO/ LINE RCA inputs jacks. When connecting turntables with magnetic cartridges to these jacks be sure the corresponding switch is in the PHONO” position, and when using line level input devices be sure the switch is in the “LINE” position.

CAUTION : Always be sure main power is shut off before change the position of the Line Level Selector Switch.

FUNCTION MAP



SOFTWARE CONTROL (TRAKTOR)

CONTROL & FUNCTIONS for TRAKTOR

| NO. | Items | Type | MIDI Channel | | Description | SHIFT + | Sample Deck (C/D) | SHIFT + |
|-----|------------------------|--------|--------------|-----|--|-----------------------------|-------------------|---------|
| 1 | Cue Mixing | VR | CH1 | | Monitor Mix | | | |
| 2 | Cue Level | VR | CH1 | | Monitor Volume | | | |
| 3 | Load A | SW/LED | CH1 | | Load Selected | Snap Mode | | |
| 4 | Browser | ENC | CH1 | | List Select Up/Down | Tree Select Up/Down | | |
| | Browser Button | SW | CH1 | | Only Browser Toggle (M5) | Tree Select Expand/Collapse | | |
| 5 | Load B | SW/LED | CH1 | | Load Selected | Quantize Mode | | |
| 6 | Booth | VR | CH1 | | | | | |
| 7 | Master | VR | CH1 | | Master Volume | | | |
| 8 | MIC Level | VR | CH1 | | Microphone Gain | | | |
| 9 | MIC Tone | VR | CH1 | | | | | |
| 10 | Select Encoder | ENC | CH1 | | Loop Recoder Dry/Wet | | | |
| | Select Button | SW | CH1 | | | | | |
| 11 | Loop Size (TX) | SW/LED | CH1 | | Loop Recoder Size | | | |
| 12 | Undo (FX) | SW/LED | CH1 | | Loop Recoder Undo/Del | | | |
| 13 | REC (TX ON) | SW/LED | CH1 | | Loop Recoder Record | | | |
| 14 | Play (FX ON) | SW/LED | CH1 | | Loop Recoder Play/Pause | | | |
| 15 | SHIFT | SW/LED | CH1 | | Press or hold to access secondary function | | | |
| 16 | Master Level Meter (L) | LED VR | CH1 | | Master Level Left | | | |
| | Master Level Meter (R) | LED VR | CH1 | | Master Level Right | | | |
| 17 | Crossfader | VR | CH1 | | X-Fader | | | |
| 18 | Crossfader Reverse | SW/LED | CH1 | | | | | |
| 19 | Crossfader Curve | VR | CH1 | | X-Fader Curve | | | |
| 20 | Crossfader THRU | SW/LED | CH1 | | | | | |
| 21 | Channel Fader Reverse | SW/LED | CH1 | CH2 | | | | |
| 22 | Channel Fader Curve | VR | CH1 | CH2 | | | | |
| 23 | Gain | VR | CH1 | CH2 | Gain | | Gain | |
| 24 | EQ High | VR | CH1 | CH2 | EQ Hight | | EQ Hight | |
| 25 | EQ Mid | VR | CH1 | CH2 | EQ Mid | | EQ Mid | |

SOFTWARE CONTROL (TRAKTOR)

| NO. | Items | Type | MIDI Channel | | Description | SHIFT + | Sample Deck (C/D) | SHIFT + |
|-----|---------------------|--------|--------------|-----|-----------------------------|------------------------|-----------------------------|------------|
| 26 | EQ Low | VR | CH1 | CH2 | EQ Low | | EQ Low | |
| 27 | Filter | VR | CH1 | CH2 | Filter | | Filter | |
| 28 | Monitor Cue | SW/LED | CH1 | CH2 | Monitor Cue | | Monitor Cue | |
| 29 | Channel Fader | VR | CH1 | CH2 | Volume Fader | | Volume Fader | |
| 30 | Channel Level Meter | LED VR | CH1 | CH2 | Monitor Deck PFL Left/Right | | Monitor Deck PFL Left/Right | |
| 31 | Fader Start | SW/LED | CH1 | CH2 | Auto X-Fade Left/Right | | Auto X-Fade Left/Right | |
| 32 | FX1 ON | SW/LED | CH1 | CH2 | Effect Unit 1 ON | | Effect Unit 1 ON | |
| 33 | FX2 ON | SW/LED | CH1 | CH2 | Effect Unit 2 ON | | Effect Unit 2 ON | |
| 34 | FX ON | SW/LED | CH1 | CH2 | S:Effect ON | | | |
| 35 | FX Dry/Wet | VR | CH1 | CH2 | Dry Wet | S: FX Select | | |
| 36 | FX Button 1 | SW/LED | CH1 | CH2 | S:Reset G:FX 1 ON | G: FX 1 Select | | |
| 37 | FX Parameter 1 | VR | CH1 | CH2 | S: Param 1 G: FX1 Amount | | | |
| 38 | FX Button 2 | SW/LED | CH1 | CH2 | S: Button 1 G:FX 2 ON | G: FX 2 Select | | |
| 39 | FX Parameter 2 | VR | CH1 | CH2 | S: Param 2 G: FX 2 Amount | | | |
| 40 | FX Button 3 | SW/LED | CH1 | CH2 | S: Button 2 G:FX 3 ON | G: FX 3 Select | | |
| 41 | FX Parameter 3 | VR | CH1 | CH2 | S: Param 3 G: FX 3 Amount | | | |
| 34 | Sample 1 ON | SW/LED | CH1 | CH2 | Load from deck (M5=1 List) | Copy from loop recoder | Slot 1 Retrigger | Clear Slot |
| 35 | Sample 1 Volume | VR | CH1 | CH2 | Slot 1 Volume | | Slot 1 Volume | |
| 36 | Sample 2 ON | SW/LED | CH1 | CH2 | Load from deck (M5=1 List) | Copy from loop recoder | Slot 2 Retrigger | Clear Slot |
| 37 | Sample 2 Volume | VR | CH1 | CH2 | Slot 2 Volume | | Slot 2 Volume | |
| 38 | Sample 3 ON | SW/LED | CH1 | CH2 | Load from deck (M5=1 List) | Copy from loop recoder | Slot 3 Retrigger | Clear Slot |
| 39 | Sample 3 Volume | VR | CH1 | CH2 | Slot 3 Volume | | Slot 3 Volume | |
| 40 | Sample 4 ON | SW/LED | CH1 | CH2 | Load from deck (M5=1 List) | Copy from loop recoder | Slot 4 Retrigger | Clear Slot |
| 41 | Sample 4 Volume | VR | CH1 | CH2 | Slot 4 Volume | | Slot 4 Volume | |

SOFTWARE CONTROL (TRAKTOR)

| NO. | Items | Type | MIDI Channel | | Description | SHIFT + | Sample Deck (C/D) | SHIFT + |
|-----|-----------------|--------|--------------|-----|---|------------------------------|-------------------|-------------------------------|
| 42 | Sampler | SW/LED | CH1 | CH2 | Active Sampler function | | | |
| 43 | Deck Switch | SW/LED | CH1 | CH2 | Modifer 1 / 2 | FX Panel Mode (Single/Group) | Modifer 1 / 2 | FX Panel Mode (Single /Group) |
| 44 | Pitch Decrease | SW | CH1 | CH2 | Tempo Bend Dec | Seek Position Dec | | |
| 45 | Pitch Increase | SW | CH1 | CH2 | Tempo Bend Inc | Seek Position Inc | | |
| 46 | Loop Size | ENC | CH1 | CH2 | Loop Size | Cue/Loop Move | | |
| | Loop Active | SW | CH1 | CH2 | Loop Set | Cue/Loop Move Mode | | |
| 47 | Hot Cue | SW/LED | CH1 | CH2 | Active Hot Cue function control by firmware | | | |
| 48 | Key Lock | SW/LED | CH1 | CH2 | Key Lock | Beat Tap | | |
| 49 | Loop In | SW/LED | CH1 | CH2 | Loop In | | | |
| 50 | Loop Out | SW/LED | CH1 | CH2 | Loop Out | | | |
| 51 | Beat Jump Left | SW/LED | CH1 | CH2 | Beat Jump - | Previous Cue | | |
| 52 | Beat Jump Right | SW/LED | CH1 | CH2 | Beat Jump + | Next Cue | | |
| 53 | Cue | SW/LED | CH1 | CH2 | Cue | Relative Mode | Group Cue | |
| 54 | CUP (Cue/Play) | SW/LED | CH1 | CH2 | Cue Play | Absoult Mode | | |
| 55 | Play/Pause | SW/LED | CH1 | CH2 | Play Pause | Back to first cue | Group Play | |
| 56 | SYNC | SW/LED | CH1 | CH2 | Beat Sync | Set to Master | | |
| 49 | Hot Cue 1 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 1 | Delete Hotcue 1 | | |
| 50 | Hot Cue 5 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 5 | Delete Hotcue 5 | | |
| 51 | Hot Cue 2 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 2 | Delete Hotcue 2 | | |
| 52 | Hot Cue 6 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 6 | Delete Hotcue 6 | | |
| 53 | Hot Cue 3 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 3 | Delete Hotcue 3 | | |
| 54 | Hot Cue 7 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 7 | Delete Hotcue 7 | | |
| 55 | Hot Cue 4 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 4 | Delete Hotcue 4 | | |
| 56 | Hot Cue 8 | SW/LED | CH1 | CH2 | Select/Set+Store Hotcue 8 | Delete Hotcue 8 | | |

SOFTWARE CONTROL (VIRTUALDJ)

CONTROL & FUNCTIONS for VIRTUALDJ

| NO. | Items | Type | MIDI Channel | Description | SHIFT + |
|-----|----------------|--------|--------------|--|--|
| 1 | Cue Mixing | VR | CH1 | Change the mix of the PFL | |
| 2 | Cue Level | VR | CH1 | Change the volume of the PFL output | |
| 3 | Load A | SW/LED | CH1 | Loads the selected song on the deck A | Change the page displayed in the browser window (folders, songs, playlist, sidelist) Browser_window +1 |
| 4 | Browser | ENC | CH1 | Scrolls file/folder list | |
| | Browser Button | SW | CH1 | Songs: Adds song to playlist Folders: Enter folder | Songs: Zoom or unzoom the browser, Folders: Expand/collapse folder |
| 5 | Load B | SW/LED | CH1 | Loads the selected song on the deck B | Change the page displayed in the browser window (folders, songs, playlist, sidelist) Browser_window -1 |
| 6 | Booth | VR | CH1 | | |
| 7 | Master | VR | CH1 | Master Volume | |
| 8 | MIC Level | VR | CH1 | | |
| 9 | MIC Tone | VR | CH1 | | |
| 10 | Select Encoder | ENC | CH1 | Select the plugin used for video transitions | Selects a video effect |
| | Select Button | SW | CH1 | opens video window if not already open, otherwise activates video transition | activates video effect |
| 11 | TX | SW/LED | CH1 | Launch a transition from one video deck to the other | page "BROWSER" |
| 12 | FX | SW/LED | CH1 | Activate/deactivate the selected video effect | page "SAMPLER" |
| 13 | Video XF | SW/LED | CH1 | Active the video crossfader function | page "EFFECTS" |
| 14 | XF LINK | SW/LED | CH1 | Link or unlink the video crossfader to the audio crossfader | page "RECORD" |
| 15 | SHIFT | SW/LED | CH1 | Press or hold to access the secondary functions of other control elements | |

SOFTWARE CONTROL (VIRTUALDJ)

| NO. | Items | Type | MIDI Channel | | Description | SHIFT + |
|-----|------------------------|--------|--------------|-----|--|--|
| 16 | Master Level Meter (L) | LED VR | CH1 | | Get the value of the outgoing vu-meter for the left balance | |
| | Master Level Meter (R) | LED VR | CH1 | | Get the value of the outgoing vu-meter for the Right balance | |
| 17 | Crossfader | VR | CH1 | | Audio Crossfader | |
| | Video Crossfader | VR | CH1 | | Video Crossfader | |
| 18 | Crossfader Reverse | SW/LED | CH1 | | Reverses audio crossfader (No effect on video crossfader) | |
| 19 | Crossfader Curve | VR | CH1 | | Select the curve of the crossfader | |
| 20 | Crossfader THRU | SW/LED | CH1 | | Disables audio crossfader (No effect on video crossfader) | |
| 21 | Channel Fader Reverse | SW/LED | CH1 | CH2 | None | |
| 22 | Channel Fader Curve | VR | CH1 | CH2 | None | |
| 23 | Gain | VR | CH1 | CH2 | Set the channel gain | |
| 24 | EQ High | VR | CH1 | CH2 | Set the treble equalizer | |
| 25 | EQ Mid | VR | CH1 | CH2 | Set the medium equalizer | |
| 26 | EQ Low | VR | CH1 | CH2 | Set the bass equalizer | |
| 27 | Filter | VR | CH1 | CH2 | filter : apply a resonant filter | |
| 28 | Monitor Cue | SW/LED | CH1 | CH2 | Select the deck to the headphones | |
| 29 | Channel Fader | VR | CH1 | CH2 | Adjust the level of the selected channel | |
| 30 | Channel Level Meter | LED VR | CH1 | CH2 | Get the value of the incoming vu-meter | |
| 31 | Fader Start | SW/LED | CH1 | CH2 | Fader Start | Launch a video transition to left/Right deck |
| 32 | FX1 ON | SW/LED | CH1 | CH2 | Start or stop the BeatGrid effect | Start or stop the BREAK effect |
| 33 | FX2 ON | SW/LED | CH1 | CH2 | Start or stop the FLANGER effect | Start or stop the BACKSPIN effect |
| 34 | FX ON | SW/LED | CH1 | CH2 | Start or stop selected effect | |
| 35 | FX Dry/Wet | VR | CH1 | CH2 | Selects a effect from the list | |
| 36 | FX Button 1 | SW/LED | CH1 | CH2 | Effect button 1 | |
| 37 | FX Parameter 1 | VR | CH1 | CH2 | Controls the effect parameter 1 | |
| 38 | FX Button 2 | SW/LED | CH1 | CH2 | Effect button 2 (Only supported in selected effect plugings) | |
| 39 | FX Parameter 2 | VR | CH1 | CH2 | Controls the effect parameter 2 | |
| 40 | FX Button 3 | SW/LED | CH1 | CH2 | Effect button 3 (Only supported in selected effect plugings) | |
| 41 | FX Parameter 3 | VR | CH1 | CH2 | key : change the key of the song | |

SOFTWARE CONTROL (VIRTUALDJ)

| NO. | Items | Type | MIDI Channel | | Description | SHIFT + |
|-----|-----------------|--------|--------------|-----|--|--|
| 34 | Sample 1 ON | SW/LED | CH1 | CH2 | Play the selected sample if it's not already playing, or stop it if it's already playing | On first press, start to record a new sample in the selected slot. on second press, stop to record. |
| 35 | Sample 1 Volume | VR | CH1 | CH2 | Change the volume of the selected sample | |
| 36 | Sample 2 ON | SW/LED | CH1 | CH2 | Play the selected sample if it's not already playing, or stop it if it's already playing | On first press, start to record a new sample in the selected slot. on second press, stop to record. |
| 37 | Sample 2 Volume | VR | CH1 | CH2 | Change the volume of the selected sample | |
| 38 | Sample 3 ON | SW/LED | CH1 | CH2 | Play the selected sample if it's not already playing, or stop it if it's already playing | On first press, start to record a new sample in the selected slot. on second press, stop to record. |
| 39 | Sample 3 Volume | VR | CH1 | CH2 | Change the volume of the selected sample | |
| 40 | Sample 4 ON | SW/LED | CH1 | CH2 | Play the selected sample if it's not already playing, or stop it if it's already playing | On first press, start to record a new sample in the selected slot. on second press, stop to record. |
| 41 | Sample 4 Volume | VR | CH1 | CH2 | Change the volume of the selected sample | |
| 42 | Sampler | SW/LED | CH1 | CH2 | Active sampler function | |
| 43 | Deck Switch | SW/LED | CH1 | CH2 | | Open the Scratch/Mixer window |
| 44 | Pitch Decrease | SW | CH1 | CH2 | Applies pitch bend -2% 500ms | seek -4 |
| 45 | Pitch Increase | SW | CH1 | CH2 | Applies pitch bend +2% 500ms | seek +4 |
| 46 | Loop Size | ENC | CH1 | CH2 | Set the loop size (or default loop size if no loop is active) | Move the loop left/right by 4 beats |
| | Loop Active | SW | CH1 | CH2 | Set or remove a loop | |
| 47 | Hot Cue | SW/LED | CH1 | CH2 | None | |
| 48 | Key Lock | SW/LED | CH1 | CH2 | Activate/deactivate the key lock | Tap on a few beats to set a new bpm for the song if the application didn't got it right on the first time. |

SOFTWARE CONTROL (VIRTUALDJ)

| NO. | Items | Type | MIDI Channel | | Description | SHIFT + |
|-----|-----------------|--------|--------------|-----|---|--|
| 49 | Loop In | SW/LED | CH1 | CH2 | Set loop in point. if not in loop, set the beginning of a loop. if in loop, jump back to the beginning of the loop. | |
| 50 | Loop Out | SW/LED | CH1 | CH2 | Set loop out point. if not in loop, set the deck in loop, starting from the last set loop_in point or stutter point. if in loop, exit the loop. | |
| 51 | Beat Jump Left | SW/LED | CH1 | CH2 | Move backward the song by 4 beat while the button is pressed | Jump to previous cue point |
| 52 | Beat Jump Right | SW/LED | CH1 | CH2 | Move forward the song by 4 beat while the button is pressed | Jump to next cue point |
| 53 | Cue | SW/LED | CH1 | CH2 | Set the current position as cue point, and preview the cue as long as pressed | timecode_mode: relative |
| 54 | CUP (Cue/Play) | SW/LED | CH1 | CH2 | Back to cue and play | timecode_mode: absolt |
| 55 | Play/Pause | SW/LED | CH1 | CH2 | If paused, start the deck. if playing, pause the deck. Button lights up when playing. Blinking while cue | Automatically goes to the first beat in the song if playing continue playing. If the song is paused then it will jump to the first beat and remain paused. |
| 56 | SYNC | SW/LED | CH1 | CH2 | Synchronize the song with the other deck | Select/unselect this deck as 'master deck' |
| 49 | Hot Cue 1 | SW/LED | CH1 | CH2 | Sets Hot Cue 1 and Play | Delete Hotcue 1 |
| 50 | Hot Cue 5 | SW/LED | CH1 | CH2 | Sets Hot Cue 5 and Play | Delete Hotcue 5 |
| 51 | Hot Cue 2 | SW/LED | CH1 | CH2 | Sets Hot Cue 2 and Play | Delete Hotcue 2 |
| 52 | Hot Cue 6 | SW/LED | CH1 | CH2 | Sets Hot Cue 6 and Play | Delete Hotcue 6 |
| 53 | Hot Cue 3 | SW/LED | CH1 | CH2 | Sets Hot Cue 3 and Play | Delete Hotcue 3 |
| 54 | Hot Cue 7 | SW/LED | CH1 | CH2 | Sets Hot Cue 7 and Play | Delete Hotcue 7 |
| 55 | Hot Cue 4 | SW/LED | CH1 | CH2 | Sets Hot Cue 4 and Play | Delete Hotcue 4 |
| 56 | Hot Cue 8 | SW/LED | CH1 | CH2 | Sets Hot Cue 8 and Play | Delete Hotcue 8 |

SOFTWARE CONTROL (MIDI MAP)

MIDI MAP

| NO. | Items | Type | MIDI Channel | | HX | | HX | | HX | | HX | | HX | |
|-----|------------------------|--------|--------------|-------|----|-------|-----|----|-------|----|----|----|----|--|
| | | | Left | Right | SW | SHIFT | LED | VR | SHIFT | | | | | |
| 1 | Cue Mixing | VR | CH1 | | | | | | | 1 | 1 | 41 | 29 | |
| 2 | Cue Level | VR | CH1 | | | | | | | 2 | 2 | 42 | 2A | |
| 3 | Load A | SW/LED | CH1 | | 1 | 1 | 51 | 33 | 1 | 1 | | | | |
| 4 | Browser | ENC | CH1 | | | | | | | 3 | 3 | 43 | 2B | |
| | Browser Button | SW | CH1 | | 2 | 2 | 52 | 34 | 2 | 2 | | | | |
| 5 | Load B | SW/LED | CH1 | | 3 | 3 | 53 | 35 | 3 | 3 | | | | |
| 6 | Booth | VR | CH1 | | | | | | | 4 | 4 | 44 | 2C | |
| 7 | Master | VR | CH1 | | | | | | | 5 | 5 | 45 | 2D | |
| 8 | MIC Level | VR | CH1 | | | | | | | 6 | 6 | 46 | 2E | |
| 9 | MIC Tone | VR | CH1 | | | | | | | 7 | 7 | 47 | 2F | |
| 10 | Select Encoder | ENC | CH1 | | | | | | | 8 | 8 | 48 | 30 | |
| | Select Button | SW | CH1 | | 4 | 4 | 54 | 36 | X | X | | | | |
| 11 | Loop Size (TX) | SW/LED | CH1 | | 5 | 5 | 55 | 37 | 5 | 5 | | | | |
| 12 | Undo (FX) | SW/LED | CH1 | | 6 | 6 | 56 | 38 | 6 | 6 | | | | |
| 13 | REC (TX ON) | SW/LED | CH1 | | 7 | 7 | 57 | 39 | 7 | 7 | | | | |
| 14 | Play (FX ON) | SW/LED | CH1 | | 8 | 8 | 58 | 3A | 8 | 8 | | | | |
| 15 | SHIFT | SW/LED | CH1 | | 9 | 9 | | | 9 | 9 | | | | |
| 16 | Master Level Meter (L) | LED VR | CH1 | | | | | | | 9 | 9 | 49 | 31 | |
| | Master Level Meter (R) | LEV VR | CH1 | | | | | | | 10 | A | 50 | 32 | |
| 17 | Crossfader | VR | CH1 | | | | | | | 11 | B | 51 | 33 | |
| | Video Crossfader | VR | CH1 | | | | | | | 26 | 1A | 66 | 42 | |
| 18 | Crossfader Reverse | SW/LED | CH1 | | 13 | D | 63 | 3F | 13 | D | | | | |
| 19 | Crossfader Curve | VR | CH1 | | | | | | | 13 | D | 53 | 35 | |
| 20 | Crossfader THRU | SW/LED | CH1 | | 14 | E | 64 | 40 | 14 | E | | | | |
| 21 | Channel Fader Reverse | SW/LED | CH1 | CH2 | 12 | C | 62 | 3E | 12 | C | | | | |
| 22 | Channel Fader Curve | VR | CH1 | CH2 | | | | | | 12 | C | 52 | 34 | |
| 23 | Gain | VR | CH1 | CH2 | | | | | | 14 | E | 54 | 36 | |
| 24 | EQ High | VR | CH1 | CH2 | | | | | | 15 | F | 55 | 37 | |
| 25 | EQ Mid | VR | CH1 | CH2 | | | | | | 16 | 10 | 56 | 38 | |
| 26 | EQ Low | VR | CH1 | CH2 | | | | | | 17 | 11 | 57 | 39 | |

SOFTWARE CONTROL (MIDI MAP)

| NO. | Items | Type | MIDI Channel | | HX | | HX | | HX | | HX | | HX | |
|-----|---------------------|--------|--------------|-------|----|----|-------|----|-----|----|----|----|-------|----|
| | | | Left | Right | SW | | SHIFT | | LED | | VR | | SHIFT | |
| 27 | Filter | VR | CH1 | CH2 | | | | | | | 18 | 12 | 58 | 3A |
| | Filter Off | SW | CH1 | CH2 | 15 | F | 65 | 41 | 15 | F | | | | |
| 28 | Monitor Cue | SW/LED | CH1 | CH2 | 16 | 10 | 66 | 42 | 16 | 10 | | | | |
| 29 | Channel Fader | VR | CH1 | CH2 | | | | | | | 19 | 13 | 59 | 3B |
| 30 | Channel Level Meter | LED VR | CH1 | CH2 | | | | | | | 20 | 14 | 60 | 3C |
| 31 | Fader Start | SW/LED | CH1 | CH2 | 17 | 11 | 67 | 43 | 17 | 11 | | | | |
| 32 | FX1 On | SW/LED | CH1 | CH2 | 18 | 12 | 68 | 44 | 18 | 12 | | | | |
| 33 | FX2 ON | SW/LED | CH1 | CH2 | 19 | 13 | 69 | 45 | 19 | 13 | | | | |
| 34 | FX ON | SW/LED | CH1 | CH2 | 20 | 14 | 70 | 46 | 20 | 14 | | | | |
| 35 | FX Dry/Wet | VR | CH1 | CH2 | | | | | | | 21 | 15 | 61 | 3D |
| 36 | FX Button 1 | SW/LED | CH1 | CH2 | 21 | 15 | 71 | 47 | 21 | 15 | | | | |
| 37 | FX Parameter 1 | VR | CH1 | CH2 | | | | | | | 22 | 16 | 62 | 3E |
| 38 | FX Button 2 | SW/LED | CH1 | CH2 | 22 | 16 | 72 | 48 | 22 | 16 | | | | |
| 39 | FX Parameter 2 | VR | CH1 | CH2 | | | | | | | 23 | 17 | 63 | 3F |
| 40 | FX Button 3 | SW/LED | CH1 | CH2 | 23 | 17 | 73 | 49 | 23 | 17 | | | | |
| 41 | FX Parameter 3 | VR | CH1 | CH2 | | | | | | | 24 | 18 | 64 | 40 |
| 34 | Sample 1 ON | SW/LED | CH1 | CH2 | 39 | 27 | 89 | 59 | 39 | 27 | | | | |
| 35 | Sample 1 Volume | VR | CH1 | CH2 | | | | | | | 31 | 1F | 71 | 47 |
| 36 | Sample 2 ON | SW/LED | CH1 | CH2 | 40 | 28 | 90 | 5A | 40 | 28 | | | | |
| 37 | Sample 2 Volume | VR | CH1 | CH2 | | | | | | | 32 | 20 | 72 | 48 |
| 38 | Sample 3 ON | SW/LED | CH1 | CH2 | 41 | 29 | 91 | 5B | 41 | 29 | | | | |
| 39 | Sample 3 Volume | VR | CH1 | CH2 | | | | | | | 33 | 21 | 73 | 49 |
| 40 | Sample 4 ON | SW/LED | CH1 | CH2 | 42 | 2A | 92 | 5C | 42 | 2A | | | | |
| 41 | Sample 4 Volume | VR | CH1 | CH2 | | | | | | | 34 | 22 | 74 | 4A |
| 42 | Sampler | SW/LED | CH1 | CH2 | 24 | 18 | 74 | 4A | 24 | 18 | | | | |
| 43 | Deck Switch | SW/LED | CH1 | CH2 | 25 | 19 | 75 | 4B | 25 | 19 | | | | |
| 44 | Pitch Decrease | SW | CH1 | CH2 | 26 | 1A | 76 | 4C | X | X | | | | |
| 45 | Pitch Increase | SW | CH1 | CH2 | 27 | 1B | 77 | 4D | X | X | | | | |

SOFTWARE CONTROL (MIDI MAP)

| NO. | Items | Type | MIDI Channel | | HX | | HX | | HX | | HX | | HX | |
|-----|-----------------|--------|--------------|-------|----|----|-------|----|-----|----|----|----|-------|----|
| | | | Left | Right | SW | | SHIFT | | LED | | VR | | SHIFT | |
| 46 | Loop Size | ENC | CH1 | CH2 | | | | | | | 25 | 19 | 65 | 41 |
| | Loop Active | SW | CH1 | CH2 | 28 | 1C | 78 | 4E | X | X | | | | |
| 47 | Hot Cue | SW/LED | CH1 | CH2 | 29 | 1D | 79 | 4F | 29 | 1D | | | | |
| 48 | Key Lock | SW/LED | CH1 | CH2 | 30 | 1E | 80 | 50 | 30 | 1E | | | | |
| 49 | Loop In | SW/LED | CH1 | CH2 | 31 | 1F | 81 | 51 | 31 | 1F | | | | |
| 50 | Loop Out | SW/LED | CH1 | CH2 | 32 | 20 | 82 | 52 | 32 | 20 | | | | |
| 51 | Beat Jump Left | SW/LED | CH1 | CH2 | 36 | 24 | 86 | 56 | 36 | 24 | | | | |
| 52 | Beat Jump Right | SW/LED | CH1 | CH2 | 33 | 21 | 83 | 53 | 33 | 21 | | | | |
| 53 | Cue | SW/LED | CH1 | CH2 | 37 | 25 | 87 | 57 | 37 | 25 | | | | |
| 54 | CUP (Cue/Play) | SW/LED | CH1 | CH2 | 34 | 22 | 84 | 54 | 34 | 22 | | | | |
| 55 | Play/Pause | SW/LED | CH1 | CH2 | 38 | 26 | 88 | 58 | 38 | 26 | | | | |
| 56 | SYNC | SW/LED | CH1 | CH2 | 35 | 23 | 85 | 55 | 35 | 23 | | | | |
| 49 | Hot Cue 1 | SW/LED | CH1 | CH2 | 43 | 2B | 93 | 5D | 43 | 2B | | | | |
| 50 | Hot Cue 5 | SW/LED | CH1 | CH2 | 44 | 2C | 94 | 5E | 44 | 2C | | | | |
| 51 | Hot Cue 2 | SW/LED | CH1 | CH2 | 48 | 30 | 98 | 62 | 48 | 30 | | | | |
| 52 | Hot Cue 6 | SW/LED | CH1 | CH2 | 45 | 2D | 95 | 5F | 45 | 2D | | | | |
| 53 | Hot Cue 3 | SW/LED | CH1 | CH2 | 49 | 31 | 99 | 63 | 49 | 31 | | | | |
| 54 | Hot Cue 7 | SW/LED | CH1 | CH2 | 46 | 2E | 96 | 60 | 46 | 2E | | | | |
| 55 | Hot Cue 4 | SW/LED | CH1 | CH2 | 50 | 32 | 100 | 64 | 50 | 32 | | | | |
| 56 | Hot Cue 8 | SW/LED | CH1 | CH2 | 47 | 2F | 97 | 61 | 47 | 2F | | | | |

SPECIFICATIONS

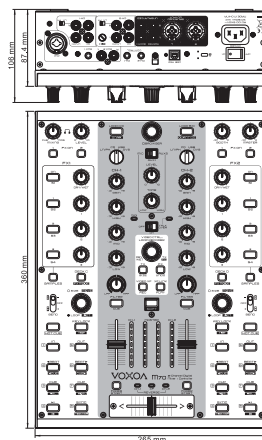
1. GENERAL SECTION

POWER : AC100 - 240V~, 50/60Hz

POWER CONSUMPTION :14 WATTS

DIMENSION : 265 (W) X 360 (D) X 106 (H) mm

WEIGHT : 3.95kg



2. INPUT/OUTPUT IMPEDANCE & SENSITIVITY: 1KHz, EQ/FILTER FLAT, MAX. GAIN

- INPUT IMPEDANCE AND REFERENCE INPUT LEVEL

| | |
|----------|--|
| CD1/2 | 10K Ω /-14dBV(200mV) \pm 2dB |
| PHONO1/2 | 47K Ω /-50dBV(3.16mV) \pm 2dB |
| LINE1/2 | 47K Ω /-14dBV(3.16mV) \pm 2dB |
| MIC | 12K Ω /-54dBV(2mV) \pm 2dB |
| AUX1/2 | 10K Ω /-14dBV(200mV) \pm 2dB |
- OUTPUT IMPEDANCE AND REFERENCE OUT LEVEL

| | |
|------------|------------------------------------|
| MASTER RCA | 1K OHM |
| BALANCED | 330 OHM (Signal to Signal 10K ohm) |
| PHONE | 33 OHM (load=32 ohm) |

3. FREQUENCY RESPONSE:: EQ/TONE/FILTER FLAT, GAIN & MASTER/FADER MAX., W/20KHz LPF, MASTER = 0dBV, USB→MASTER MAX,GAIN adjust Output=0dBV

- | | |
|------------------------|---------------------------------------|
| LINE1/2, CD1/2, AUX1/2 | 20 - 20K Hz \pm 3dB |
| MIC | 20 - 20K Hz +2/-3dB |
| USB | 17 - 16K Hz +/-2dB (TCD781 TRK1,4,16) |
| PHONO | 20Hz / 20KHz +2/-3dB (RIAA) |

4. THD + N: TRIM & MASTER LEVEL MAX. , CD/LINE/AUX/MIC_OUTPUT LEVEL=15.79dBV, USB→MASTER MAX,GAIN adjust Output=0dBV,1KHz,TCD-781TRK.1, EQ/FILTER FLAT, W/20KHz LPF, A-WEIGHTED

- | | |
|--------------------|-------|
| CD1/2 to MASTER | 0.01% |
| AUX1/2 to MASTER | 0.01% |
| PHONO1/2 to MASTER | 0.05% |
| MIC to MASTER | 0.05% |
| LINE1/2 to MASTER | 0.01% |
| USB1/2 to MASTER | 0.02% |

SPECIFICATIONS

5. MASTER OUTPUT S/N RATIO : EQ/TONE/FILTER FLAT, GAIN & MASTER/FADER MAX., W/20KHz LPF, A-WEIGHTED, OUTPUT LEVEL=15.79dBV)

| | |
|------------------------|----------------|
| LINE1/2, CD1/2, AUX1/2 | MORE THAN 95dB |
| PHONO1/2 | MORE THAN 90dB |
| MIC | MORE THAN 78dB |

6. CHANNEL EQUALIZER RESPONSE: EQ/TONE/FILTER FLAT, GAIN & MASTER/FADER MAX., W/20KHz LPF, MASTER= 0dBV

- (1) Low Band: Low Band center frequency is 70Hz
 - Maximum level: +9 ± 1dB (at 70Hz)
 - Minimum level: Less than -70dB (at 70Hz)
- (2) Middle Band: Middle Band center frequency is 1KHz
 - Maximum level: +9 ± 1dB (at 1KHz)
 - Minimum level: Less than -70dB (at 1KHz)
- (3) High Band: Hi Band center frequency is 13KHz
 - Maximum level: +9 ± 1dB (at 13KHz)
 - Minimum level: Less than -70dB (at 13KHz)

7. MIC/AUX EQUALIZER RESPONSE: EQ/TONE/FILTER FLAT, GAIN & MASTER/FADER MAX., W/20KHz LPF, MASTER= 0dBV

| | |
|---------------|--------------------|
| MIC/AUX1/AUX2 | -29 ± 2dB at 100Hz |
| | -29 ± 2dB at 10KHz |

Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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